

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 6750 - 250 - 228	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2005/003390	International filing date (day/month/year) 04/02/2005	(Earliest) Priority Date (day/month/year) 06/02/2004
Applicant EURO - CELTIQUE S.A.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box II).

3. **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. _____

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2005/003390

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D489/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category ^o	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	COREY ET AL.: "New and highly effective method for the oxidation of primary and secondary alcohols to carbonyl compounds" J. AMER. CHEM. SOC., vol. 94, no. 21, 1972, pages 7586-7587, XP002333837 cited in the application the whole document -----	1-13
Y	-----	14-114
A	US 6 013 796 A (HUANG ET AL) 11 January 2000 (2000-01-11) cited in the application column 3 -----	115-119
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

^o Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

18 July 2005

Date of mailing of the international search report

18.10.2005

Name and mailing address of the ISA

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Authorized officer

Grassi, D

PCT/US2005/003390
INTERNATIONAL SEARCH REPORT
Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	XIONG, ZHI-XING; HUANG, NAN-PING; ZHONG, PING: "A selective and convenient oxidation of sulfides to sulfoxides with trichloroisocyanuric acid" SYNTH. COMMUN., vol. 31, no. 2, 2001, page 245 - 248, XP009050855 SCHEME 1: Preparation of compounds 3a and 3c, page 246 -----	1
A	ULF TILSTAM, HILMAR WEINMANN: "TRICHLOROISOCYANURIC ACID: A SAFE AND EFFICIENT OXIDANT" ORGANIC PROCESS RESEARCH & DEVELOPMENT, vol. 6, no. 4, 2002, page 384-393, XP002334135 the whole document -----	1-114
Y	SHIN-ICHI OHSUGI, KIYOHARU NISHIDE, KEIJI OONO, KAZUNORI OKUYAMA, MASATO FUDESAKA, SUMIAKI KODAMA AND MANABU NODE: "New odorless method for the Corey?Kim and Swern oxidations utilizing dodecyl methyl sulfide (Dod-S-Me)" TETRAHEDRON, vol. 59, 2003, page 8393-8398, XP002334136 the whole document -----	1-114
Y	US 6 177 567 B1 (CHIU FANG-TING ET AL) 23 January 2001 (2001-01-23) columns 9-10 -----	1-114

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2005/003390

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-37, 38-45 (part), 46, 47-65 (part), 66, 67-80 (part), 81-84, 85-114 (part)

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

REDACTED

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-37, 38-45 (part), 46, 47-65 (part), 66, 67-80 (part), 81-84, 85-114 (part)

Compositions comprising trichloroisocyanuric acid and a compound of formula R₁SR₂ or the use thereof.

2. claims: 38-45(part), 47-65 (part), 67-80 (part), 85-114 (part)

Compositions comprising a compound of formula (I), a chlorine-containing compound (not being trichloroisocyanuric acid) and a compound of formula R₁SR₂ or the use thereof.

3. claims: 115-119

Compounds of formula (III).

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2005/003390

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 6013796	A	11-01-2000	US 6008355 A	28-12-1999
			US 5922876 A	13-07-1999
			US 6008354 A	28-12-1999
			US 5952495 A	14-09-1999
			US 5948788 A	07-09-1999
			US 5869669 A	09-02-1999
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US 6177567	B1	23-01-2001	AU 7384400 A	30-04-2001
			AU 7743700 A	30-04-2001
			CA 2387523 A1	26-04-2001
			JP 2004502637 T	29-01-2004
			MX PA02003594 A	23-05-2003
			WO 0129047 A2	26-04-2001
			WO 0129048 A2	26-04-2001
			US 6262266 B1	17-07-2001
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